DOCUMENT RESUME

ED 303 631 CE 051 883

TITLE Technology Education. A Description and Listing of Programs in Oklahoma. 1988-1989.
INSTITUTION Oklahoma State Dept. of Vocational and Technical Education, Stillwater.
PUB DATE 88
NOTE 15p.
PUB TYPE Reports - Descriptive (141)

EDRS PRICE MF01/PC01 Plus Postage.
DESCRIPTORS *Curriculum Development; *Industrial Arts; Program Descriptions; Program Development; *Program Implementation; Secondary Education; *State Programs; *Technology

ABSTRACT

This pamphlet provides an overview of the present situation concerning technology education in Oklahoma. It lists learner outcomes, details the criteria for a technology education program, and illustrates the role of industrial arts/technology education in the total education system. The four functions that industrial arts/technology education provides to ensure quality in vocational education are given. This information on technology education requirements and application process is provided: program funding, equipment and additional equipment, basic specific requirements per program, and the application process. A curriculum implementation plan is also presented for grades 6-10. Other contents include a summary of significant events pertaining to the implementation of technology education in Oklahoma, information on the Technology Student Association, and photographs, names, and telephone numbers of 1988-89 technology education instructors and staff. A map showing locations of programs statewide is attached. (YLB)

****
* Reproductions supplied by EDRS are the best that can be made *
* from the original document. *
****

ED303631

1988-1989

TECHNOLOGY EDUCATION

A DESCRIPTION AND LISTING OF PROGRAMS IN OKLAHOMA

U.S. DEPARTMENT OF EDUCATION
Office of Educational Research and Improvement
EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)

☒ This document has been reproduced as received from the person or organization originating it.

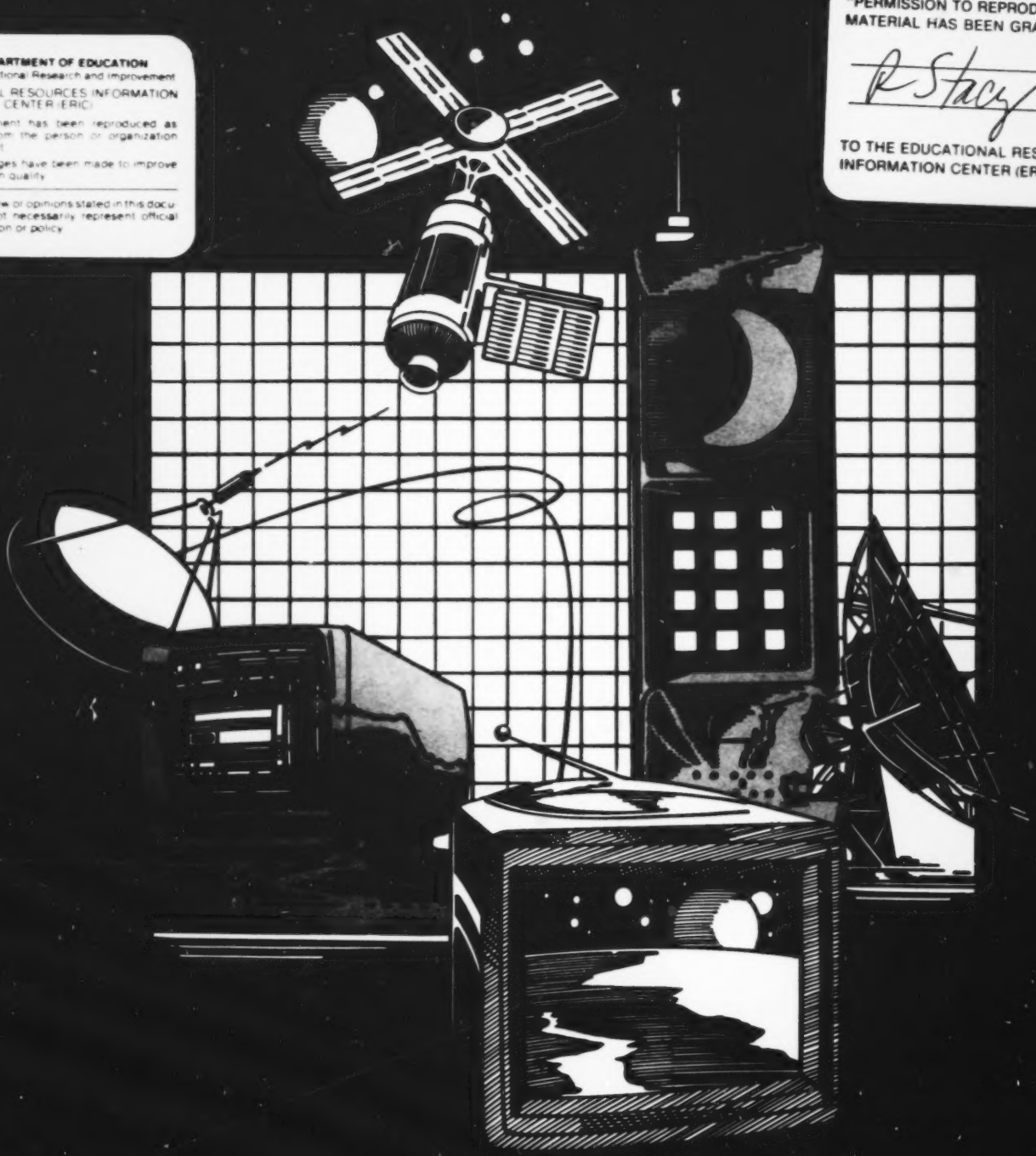
☐ Minor changes have been made to improve reproduction quality.

• Points of view or opinions stated in this document do not necessarily represent official OERI position or policy.

"PERMISSION TO REPRODUCE THIS MATERIAL HAS BEEN GRANTED BY

R Stacy

TO THE EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)."



CE051883

OKLAHOMA STATE DEPARTMENT OF VOCATIONAL AND TECHNICAL EDUCATION

Technology Education in Oklahoma

INTRODUCTION/OVERVIEW

The profession of Industrial Arts/Technology Education (IA/TE) in Oklahoma has been extremely fortunate since June 1985, because funding has been made available to upgrade and modernize the curricula of 93 existing IA/TE programs. This is part of a five-year plan to fund a total of 250 programs. The title we utilize for these funded programs is "**Technology Education**," while our remaining 500 unfunded programs are titled "Industrial Arts/Technology Education." The following information is provided as an overview of the present situation concerning Technology Education in Oklahoma.

Technology Education in Oklahoma is an instructional program that provides young men and women (grades 6-10) with daily, hands-on exploratory experiences and insights into technology and career opportunities so that they can make meaningful occupational and educational choices.

Technology Education is a program for *all students* whether *they are to be valedictorians, salutatorians, student body presidents*, or those students who have found little success in school. With the limited number of elective courses during high school, today's students, more than ever before, need to be exposed to as many occupational choices as possible. The Technology Education curriculum provides these experiences.

"*Technology Education instructors teaching Technology in a laboratory*" replaced the phrase "shop teachers who teach shop in a shop." *Teachers emphasize integrity, dignity, pride, and positive attitudes.* In addition, the Technology Student Association is implemented as an integral part of the curriculum to provide leadership development activities for all students.

All Technology Education courses are taught in a one-period *block of time (45-55 minutes)*, with each of the four Technology systems (communications, construction, manufacturing, and transportation) being designed to articulate with courses offered in comprehensive schools (e.g., math, science, English, agriculture, home economics, etc.), as well as in the area vo-tech schools. *Interdisciplinary education is vital to the success of these programs.*

LEARNER OUTCOMES

Learner outcomes for the Technology Education program include providing the opportunity for students to:

- become technologically literate.
- develop an understanding of economic development.
- apply tools, materials, processes, and technical concepts safely and efficiently.
- uncover and develop individual talents.
- apply problem-solving and decision-making techniques.
- apply other school subjects (math, science, English, etc.).
- communicate by making clear and relevant points.
- apply creative abilities.
- deal with forces that influence the future.
- adjust to the changing environment.
- become a wiser consumer.
- make informed career choices.
- become a leader in a technical society.
- develop positive self-concepts.
- think logically and sequentially.

"Technology Education provides truly up-to-date, technologically oriented curriculum, instruction, and information for students to become productive members of our society in a technical world."

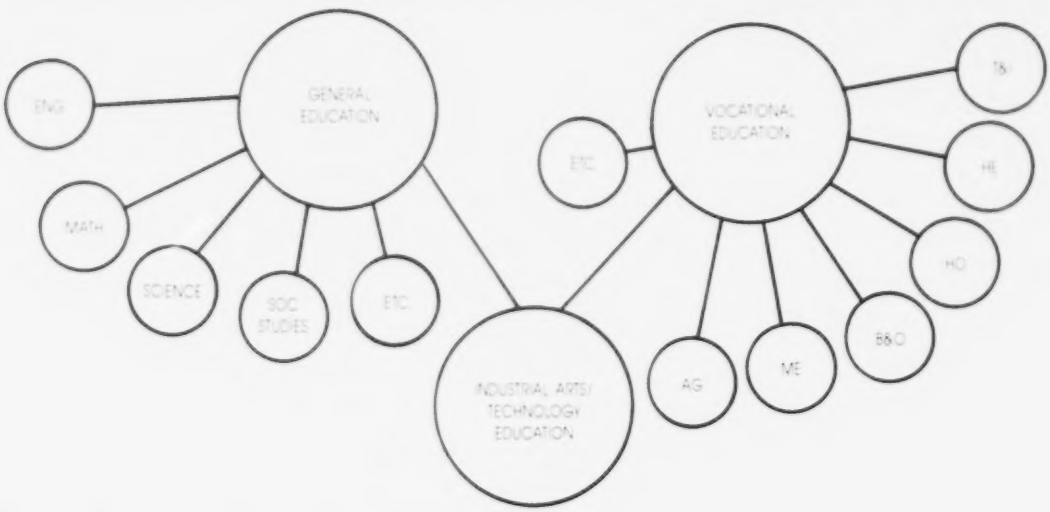
"To become technologically literate members of our society appears to be a necessary and essential attribute for future generations to obtain."

CRITERIA FOR A TECHNOLOGY EDUCATION PROGRAM

At all levels the program/content is based upon:

1. an organized set of concepts, processes, and systems which are uniquely technological;
2. fundamental knowledge about the development of technology and its effect on people, the environment, and culture;
3. instructional content drawn from one or more of the following areas:
   (a) communication – efficiently utilizing resources to transfer information to extend human potential;
   (b) construction – efficiently utilizing resources to build structures or constructed works on a site;
   (c) manufacturing – efficiently utilizing resources to extract and convert raw/recycled materials into industrial and consumer goods;
   (d) transportation – efficiently utilizing resources to obtain time and place utility and to attain and maintain direct physical contact and exchange among individuals and societal units through the movement of materials/goods and people.
4. assisting students in developing insight, understanding, and application of technological concepts, processes, and systems;
5. applying tools, materials, machines, processes, and technical concepts safely and efficiently;
6. developing student skills, creative abilities, positive self-concepts, and individual potentials in technology;
7. developing student problem-solving and decision-making abilities involving human and material resources, processes, and technological systems;
8. preparing students for lifelong learning in a technological society;
9. activity-oriented laboratory instruction with students reinforcing abstract concepts with concrete experiences; and
10. a combined emphasis on "know-how" and "ability to do" in carrying out technological work.

THE ROLE OF INDUSTRIAL ARTS/TECHNOLOGY EDUCATION IN THE TOTAL EDUCATION SYSTEM



INDUSTRIAL ARTS/TECHNOLOGY EDUCATION PLAYS AN IMPORTANT ROLE IN VOCATIONAL EDUCATION

As realized in many states throughout the nation (Texas, Virginia, Georgia, Iowa, New York, Florida, etc.), Industrial Arts/Technology Education is an articulated, integral part of the vocational education total program. Specifically, Industrial Arts/Technology Education programs provide four major functions toward ensuring quality vocational education for students.

1. **Better students for vocational education courses** - Students completing an IA/TE program have a foundation in safety and the use of tools, equipment, and materials, and are familiar with occupationally specific nomenclature.
2. **Increased enrollment** - Every day in Oklahoma, over 40,000 young men and women participate in IA/TE classes. This serves as an excellent foundation for a feeder program.
3. **Decrease in student dropout rate** - Students, through hands-on exploratory activities in the IA/TE program, will be better prepared to make a decision about their compatibility with various occupational areas.
4. **Vocational Student Organization articulation** - TSA follows the same format of goals and objectives for leadership development as the other six vocational student organizations in Oklahoma.

Technology Education Requirements and Application Process

PROGRAM FUNDING

For each approved program, the State Department of Vocational and Technical Education is providing funding in the following manner:

$10,000 per program matching money for equipment (This is a 50-50 match totaling $20,000 per program. This funding is one-time money, not reoccurring yearly.)

$ 4,140 per program incentive assistance grant per year (reoccurring yearly)

$ 2,000 per program for teacher salary (10-month extended contract) per year (reoccurring yearly)

$ 600 per program for teacher reimbursement for attending Technology Education in-service training meetings

EQUIPMENT FOR EACH PROGRAM

The basic core of equipment to be implemented into each program is as follows:

1. One Computer-Aided Drafting System
2. One Electricity Trainer
3. One Electronics Trainer
4. One Hydraulics Trainer
5. One Pneumatics Trainer
6. One Laser Trainer
7. One Electro-Mechanical Power Trainer
8. One Robotic Trainer (Pick & Place)
9. One Fiber Optics Trainer
10. One Radio Control Car Kit
11. One Satellite Trainer
12. One Video System (Camera, VCR, and Paraphernalia)
13. 2nd Computer (Robotics, CNC, Desktop Publishing)
14. 3rd Computer (Software, etc.)
15. TSA Paraphernalia

ADDITIONAL EQUIPMENT

Additionally approved equipment purchases for other subject areas include:

1. Technology Link Phone Equipment
2. First Aid Station
3. Computerized Numerical Control (CNC) Trainer
4. TSA Quiz-Tron Equipment
5. Metric 500 Equipment
6. Parke Technology Equipment
7. Pitsco Manufacturing Equipment
8. Internal Engines Equipment
9. Computer Software
10. Photography Equipment
11. Construction Equipment
12. Desktop Publishing Equipment
13. Screen Print Technology Equipment
14. CIM, CAM Equipment
15. Others upon approval

BASIC SPECIFIC REQUIREMENTS PER PROGRAM

1. Each selected teacher must hold an Oklahoma standard teaching certificate in Industrial Arts/**Technology Education** and will be subject to approval by the Industrial Arts/**Technology Education** Division as documented on the vo-tech teaching schedule.

2. Each selected program must implement the new curriculum plan in at least four periods per day, with one additional period allotted for a conference/planning period.

3. Each selected program must follow the curriculum plan from the State Department of Vo-Tech relating to the four technology systems (clusters) for grades 6-10.

4. Each selected program will have as an integral part of the curriculum an affiliated and active chapter of the Technology Student Association (TSA).

5. Each selected teacher will be required to attend a two-week in-service training program to aid in preparation to teach the new curriculum plan implemented into each program. The dates for the in-service workshop are July-August, 1989.

6. Equipment purchases for each program must be approved by the Industrial Arts/**Technology Education** Division of the State Department of Vocational and Technical Education.

APPLICATION PROCESS

In accordance with normal State Department of Vocational and Technical Education procedures for implementing a new vocational program, the applications are mailed from the state director's office to all public school superintendents in Oklahoma in February and March. Each school desiring a program must complete the application and return it to the State Department of Vocational and Technical Education by the designated date in April. A tentatively approved list will be compiled by May, with all schools making application being notified of their status of approval immediately thereafter. The final letter of approval will be mailed to each school immediately following legislative approval of the new funding in June.

"The time is truly here to provide all students in Oklahoma public schools, grades 6, 7, 8, or 9 the opportunity to learn about lasers, fiber optics, robotics, computer-aided drafting, electronics, satellite technology, and many other areas of technology."

Curriculum Implementation Plan

TECHNOLOGY EDUCATION CURRICULUM OVERVIEW, GRADES 6-10

The technology systems (clusters) of communications, construction, manufacturing, and transportation make up the curriculum direction for the Technology Education program. Each school will integrate the Technology Education I, II, and III program at the most appropriate grade levels to best serve the needs of that local student body, school, and community. The first course in which a student participates is identified as Technology Education I. This is a one-year program divided into four 9-week segments, with each of the four technology systems being taught for nine weeks each.

Technology Education II is the second course where two of the four technology systems are implemented at greater depth for 18 weeks each, totaling a full year of exploration. It is the responsibility of the local school district to select the two appropriate technology systems to be implemented. Technology Education III is the third and final course where the remaining two technology systems not addressed in Technology Education II are implemented. (Refer to chart below for more information.)

EXPLORING COMMUNICATION TECHNOLOGY

- Introduction to Communication Technology
- Freehand Sketching and Lettering
- Orthographic and Isometric Drawing
- Computer-Aided Drafting
- Graphic Arts
- Photography
- Desktop Publishing
- Telecommunications
- Satellite Technology
- Computer Utilization
- Aerospace
- Career and Leadership Opportunities

EXPLORING CONSTRUCTION TECHNOLOGY

- Introduction to Construction
- Construction Preparation
- Design and Planning
- Scheduling
- Building the Structure
- Concrete
- Plumbing
- Electrical Wiring
- Finishing the Structure
- Career and Leadership Opportunities

EXPLORING MANUFACTURING TECHNOLOGY

- Introduction to Manufacturing Technology
- The Manufacturing Enterprise
- Developing a Manufacturing System
- Manufacturing the Product
- Mass Production
- Computer-Aided Manufacturing (CAM)
- Marketing the Product
- Close of Operation
- Career and Leadership Opportunities

EXPLORING ENERGY, POWER, AND TRANSPORTATION TECHNOLOGY

- Introduction to Energy and Power
- Fluid Systems
- Mechanical Systems
- Electrical Systems
- Electronic Systems
- Small Engines
- Laser Energy
- Nuclear Energy
- Solar Energy
- Fiber Optics
- Career and Leadership Opportunities

TECHNOLOGY EDUCATION I

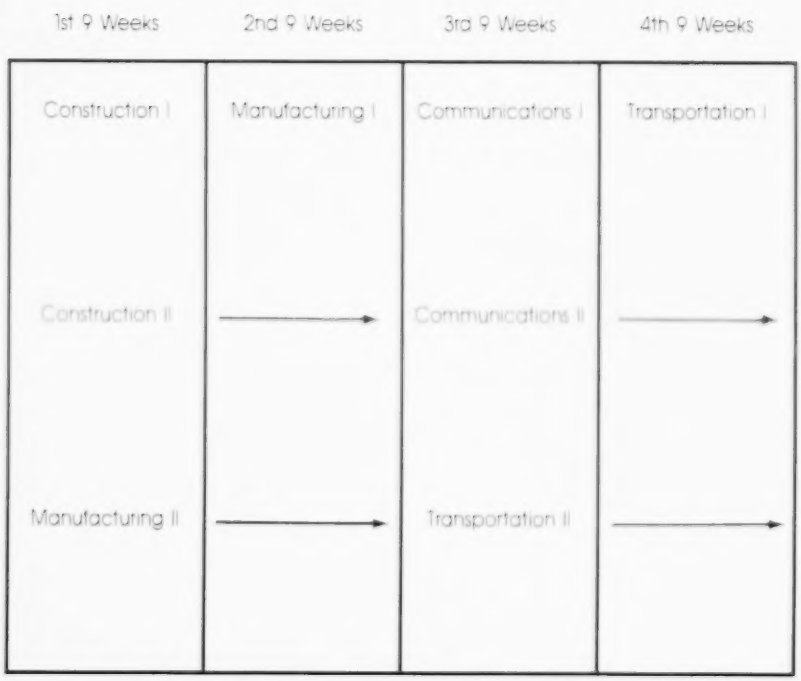
Each of the four technology systems is to be implemented for a period of nine weeks. The implementation sequence of the systems may vary from school to school, depending upon the local situation. (Grades 6-10)

TECHNOLOGY EDUCATION II

Two of the four technology systems are to be implemented for a period of 18 weeks each. It is the responsibility of the local school/program to select which two systems to implement. (Grades 7-10)

TECHNOLOGY EDUCATION III

Each school/program will implement the remaining two technology systems not implemented in Technology Education II. This level is optional since some schools may not have appropriate time periods for implementation. (Grades 7-10)



Significant Events

SIGNIFICANT EVENTS PERTAINING TO THE IMPLEMENTATION OF TECHNOLOGY EDUCATION IN OKLAHOMA

- Dr. John Folks, in his recent report *Our Children's Future Programs For Progress* (December 1987), proposed the following:

  Part II, Vocational Education, Page 4
  "c. Require all schools in Grades 7, 8, or 9 to implement the Technology Education program established by the State Department of Vocational Education."

- The instructional guides used for the Technology Education program were developed by the Mid-America Vocational Curriculum Consortium (MAVCC) in conjunction with 10 other states in the central United States.

- After reviewing the Technology Education instructional guides, the representatives from National Aeronautics and Space Administration (NASA) were so impressed that they have expressed a desire to work with the Oklahoma Technology Education teachers and MAVCC to develop a guide on Aerospace Technology during 1988.

- Also after reviewing the Technology Education instructional guides, the Agency for Instructional Technology (AIT) has written a $750,000 proposal to produce a complete videotape library specifically addressing each unit of our guide (1 tape for each of the 19 units).

- In May of this year, Oklahoma's technology education program was recognized as one of the ten vocational education programs in the United States to be showcased by the National Association of State Directors of Vocational Education. The program was given special recognition at the State Directors Association's spring meeting in Washington, D.C.

- Our Technology Education teachers report that on numerous occasions they are called upon to serve as the technology experts/leaders for their school district and/or teachers' organization.

- Significant changes have been made in the Oklahoma Administrators Handbook (Bluebook) in order to properly align Technology Education terminology for courses offered in Oklahoma public schools, grades 6-12.

- Significant changes are presently being made in the teachers exams to reflect new Technology Education curriculum.

- The nine universities which train Technology Education teachers unanimously agree and fully support the implementation of Technology Education in Oklahoma.

- The name of the teachers certificate has been changed from Industrial Arts to Industrial Arts/Technology Education.

- The Technology Education teachers have expressed a renewed vigor and excitement to be the most prepared and best teachers they can be. They are truly motivated to provide *quality instruction* for their students.

- A model Technology Education program has been established at Putnam City - Mayfield Junior High School where we have a two-teacher program implementing all aspects of our Technology Education curriculum. Our programs in Oklahoma have gained national attention, and it is this model program which is the most heavily visited by out-of-state guests:

1. Dr. Gene Bottoms, Southern Region Educational Board Director
2. Dr. Madeline Hemming, Executive Director of the National Association of State Directors of Vocational Education
3. Dr. Bonnie Guiton, Assistant Secretary, United States Department of Education (USDE)
4. Dr. John Wirt, Director, National Assessment and Evaluation Center
5. World Bank delegation of 12 executives
6. Other educators from Colorado, Ohio, and Iowa
7. Jamaican delegation concerned with pre-vocational curriculum
8. Many superintendents' and principals' groups

"Even though we have had numerous positive comments from teachers, principals, and superintendents, it seems that the most excited and interested persons involved with Technology Education programs are the *parents* of the students who are enrolled or hope to be enrolled in one of the new programs."

"We must prepare our young people to cope with technological changes and make career decisions based upon hands-on exploratory experiences in technology at the earliest grades possible in our public schools."

Technology Education

...meeting students' needs in a technological world.

Computer-Assisted Instruction

Robotics

Pneumatics

Photography

Lasers

Computer-Aided Drafting - CAD

Technology Student Association

TSA . . . develops leadership and public speaking skills

WHAT IS TSA? (Pronounced T-S-A)

- TSA is the national organization for industrial arts/technology education students.
- TSA is 42,000 high school, intermediate, and elementary students in 1,100 chapters across the country.
- TSA is an integral part of the instructional program as recognized by the U.S. Department of Education, the American Vocational Association, and the International Technology Education Association.
- TSA is alumni . . . people who have been members and still want to remain active.
- TSA is fun.
- TSA is you . . . and other teachers, parents, and business leaders who believe in the goal of a technologically literate society – and are working to achieve it.

WHAT DOES TSA DO?

Technological literacy is a basic to living, working, and making decisions in the 1980s . . . and beyond. We feel the best way to achieve this is through youth-oriented, fun-filled activities and projects – through TSA.

In TSA, students enrolled in industrial arts/technology education classes (or those who have already completed classes) can continue their exploration in the field of technology. They also learn about career options and opportunities. While involved in these activities, they learn leadership skills and are continuously motivated to do their very best.

Like other student clubs, each TSA chapter's activities vary. The chapter members, with the advisor, set their own goals and plan their own projects. But generally, chapter activities include school and community service projects, fund raisers, and social events. Most of these activities are based around the students' common interest in technology.

Chapers also may participate in TSA activities on the national level. These national programs include:

- A Competitive Events Program with some 50 competitions for every skill level and interest. Events range from extemporaneous speaking to construction of model race cars to computer-aided design.
- An Achievement Program which recognizes the individual student's community, school, and volunteer activities.
- A National Conference held each June and attended by over 1,400 students and advisors. It is at this conference that the Competitive Events Program reaches its finale with statewide champions competing for national honors, and
- A National Service Project where chapters volunteer their efforts to help with a national problem.

HOW DOES A TSA CHAPTER GET STARTED?

Just two ingredients are needed to start a TSA chapter: a motivated industrial arts/technology education teacher and an eager group of students.

Materials from National TSA outline the few steps necessary to formally charter a TSA chapter. The National Office can also put you in touch with other chapters at nearby schools and your state's TSA organization.

Once a chapter is chartered, student members carry out much of the program duties and operation themselves. By creating their own activities and establishing their own priorities, they develop valuable leadership skills.

TSA in Oklahoma

Oklahoma TSA is the youngest of the seven vocational student organizations (DECA, FBLA, FFA, FHA/HERO, HOSA, and VICA). Nationally chartering in 1977, Oklahoma TSA has realized significant growth since affiliating. From an initial beginning of 4 chapters and 96 members, Oklahoma TSA currently has 100 chapters and over 2,000 members.

CONFERENCES

The Fall Leadership Conference – held annually in October at Central State University – is based upon leadership development activities for members (e.g. Parliamentary Procedure, Public Speaking, Dinner Etiquette, Personal Grooming, Competitive Events, etc.). Approximately 100 chapters and 1,100 members attend each year.

The TSA Chapter and President's Meeting is held in Oklahoma City each February with the major thrust being to plan the state and national conferences each year, as well as updates and program discussion of TSA as a whole.

State Conference is held in Tulsa or Oklahoma City each year with the program based upon our competitive events, election of state officers, interest sessions, and outstanding motivational speakers. Some of the competitive events include: Public Speaking, Parliamentary Procedure, Technical Writing, Research Paper, Safety Posters, Energy Conservation, Metric 500 Race, and Outstanding Student/Advisor/Chapter. Approximately 110 chapters and 1,200 students attend annually.

National Conference is held throughout the nation (Atlanta, Gatlinburg, Tulsa, Washington, D.C., Houston, Orlando, etc.). Approximately 100 students from 25 chapters attend annually.

OTHER ACTIVITIES IN WHICH CHAPTERS PARTICIPATE

Annual Oklahoma State Fair - Oklahoma City
Annual Vocational-Technical Mall Exhibits (Quail Springs, OKC; Woodland Hills, Tulsa; Central Mall, Lawton; and Central Mall, Fort Smith, AR)
Annual State Capitol Exhibit for Vocational Education
Annual Technology Education Contests at five state universities
Annual Vocational Education Teachers' Conference in August at Stillwater
Annual OTEA Teachers' Meeting in October in Oklahoma City/Tulsa
Gavels for Speaker of the House of Representatives on five occasions (approximately 30 gavels presented)

INTERESTING FACTS

First received Vo-Tech Foundation grant in 1979, then to present.
Oklahoma TSA Alumni Association began in 1982-83.

National Offices Held by Oklahoma TSA Members:

National President - Jeff Short, Weatherford, 1978-79
National President - Robert Stokes, Wyandotte, 1984-85
National Vice President - Sterling Sutton, Sentinel, 1986-87
National Treasurer - David Joslin, Harrah, 1984-85
National Reporter - Traci Bowers, Fairview, 1986-87
National Reporter - Kevin Smith, Enid-Chisholm, 1987-88
National Sergeant-at-Arms - Scott Shook, Hobart, 1979-80

National Offices Held by Oklahoma TSA Alumni Members

National Alumni President - Scott Shook, Hobart, 1983-84
National Alumni President - Greg Sutton, Sentinel, 1984-85
National Alumni President - Shannon McAbee, Rocky, 1985-86
National Alumni Vice President - Dee Hayworth, Wyandotte, 1983-85
National Alumni Vice Pres. - Diane Lamphear, Wyandotte, 1985-86
National Alumni Vice President - Robert Stokes, Wyandotte, 1986-87
National Alumni Secretary - Brad Flippin, Sentinel, 1984-85
National Alumni Reporter- Anne Rogers, Sentinel, 1983-85
National Alumni Reporter - Brian Box, Fairview, 1986-87
National Alumni Sergeant-at-Arms - Mike Mongold, Fairview, 1987-88
National Alumni Advisor - Dr. Roger Stacy, Stillwater, 1984-87
National Alumni Advisor - Robert Stokes, Wyandotte, 1987-present
National Alumni Advisor - Greg Sutton, Rocky, 1987-present
Technology Education Collegiate Association - National Vice President - Kenny Carmack, Tahlequah, 1986-87

National TSA Board of Directors - 2 persons

Jeff Short - 1978-79
Dr. Roger Stacy - 1980-82, also served as National Secretary while on the Board of Directors

National Competitive Event Winners

National TSA Student of the Year - 1980, 1983, 1987
Chapter Parliamentary Procedures Teams - 1st Place in 1981, 1982, 1985, and 1986
Computer-Aided Drafting - 3rd Place, 1987, 1988
Public Speaking - numerous 1st, 2nd, and 3rd Places, 1980-1988
Electricity-Electronics - 1st Place, 1987, 3rd Place, 1988
Technology Bowl Contest - 1st Place, 1982, 1983, 1984, 1985, and 1986
Technical Writing - 1st Place, 1980 and 1985, 3rd Place, 1987
Metric 500 Contest - 1st and 2nd Place, 1979, 1980, 1981, 1982, 1983, 1985, and 1986
National Outstanding Advisors - finalists every year since 1980
Bridge Building - 1st Place, 1986, 2nd Place, 1987
Drafting Problems - 1st Place, 1986
Outstanding School - 1st Place, 1986, 1987
Dream House - 3rd Place, 1988
Technology Display - 3rd Place, 1988
Manufacturing Prototype - 2nd Place, 1988
Outstanding Chapter - 3rd Place, 1988

OKLAHOMA TSA COMPETITIVE EVENTS

COMMUNICATION
Computer-Aided Design Drafting (CADD)
Drafting Problems
Drawing Interpretation
Graphic Design
Safety Poster

CONSTRUCTION
Bridge Building
Dream House Construction

MANUFACTURING
Material Processes
Manufacturing Prototype
Metric 500
Technology Process Display

TRANSPORTATION
Electricity/Electronics
Power/Energy
Radio Control Cars

RECOGNITION
Outstanding Advisor
Outstanding Chapter
Outstanding School
Outstanding State
Outstanding Student

LEADERSHIP
Chapter Team Competition
Computer Applications
Creed
Extemporaneous Speaking
Prepared Speech
Technology Bowl-Oral
Technology Bowl-Written
Job Interview
Record Book
Research Paper
Technical Demonstration
Technical Report Writing

1988-89 Technology Education Instructors and Staff

Agra
Jr. & Sr. High
Hugh Helms
(918) 378-2261

Allen
Jr. & Sr. High
Jim Allred
(405) 857-2496

Alva
Jr. High
Max Benningfield
(405) 327-0608

Anadarko
Middle School
Arnold Jones
(405) 247-2466

Anadarko
Middle School
Lohman Landreth
(405) 247-2661

Apache
High School
Bob Jarousak
(405) 588-3358

Ardmore
Middle School
Lee Platt
(405) 223-2512

Atoka
Jr. & Sr. High
Jerry Lewis
(405) 889-3260

Bartlesville
Central Middle
Jo Ellen Basler
(918) 336-9302

Battiest
Jr. High
Tommy McDaniel
(405) 241-7810

Bennington
High School
Randall Cook
(405) 847-2310

Boswell
Jr. & Sr. High
Cecil Lewis
(405) 566-2735

Broken Arrow
Childers Middle
David Berns
(918) 451-3022

Buffalo
High School
Clyde Jackson
(405) 735-2448

Byng
Jr. High
Ron Gregory
(405) 332-4282

Byng
High School
Wyndell Walker
(405) 332-4282

Calvin
Jr. & Sr. High
Shelly Turpin
(405) 645-2411

Cashion
High School
Monty Beaty
(405) 433-2575

Chandler
High School
Kent Barton
(405) 258-1500

Chisholm
High School
Kenny Carmack
(405) 233-2852

Choctaw
Jr. High
John Parrish
(405) 390-2207

Claremore
Will Rogers Jr. High
Don Storie
(918) 341-7411

Colbert
High School
Greg Fouse
(405) 296-2864

Covington-Douglas
Jr. High
Gary Dowell
(405) 864-7482

Coweta
High School
Terry Techau
(918) 486-5212

Crescent
High School
Bill Miller
(405) 969-2386

Crowder
High School
Arlan Cox
(918) 334-3203

Cushing
Jr. High School
Brent Brownlee
(918) 225-1311

Cushing
High School
Harrison Fentress
(918) 227-1361

Custer City
Jr. & Sr. High
Gary Daugherty
(405) 593-2257

Cyril
High School
Clint Kissee
(405) 464-2419

Durant
Jr. High
Tony Taylor
(405) 924-1321

Elgin
High School
Dwight Cope
(405) 492-4368

El Reno
Jr. & Sr. High
Terrance Rice
(405) 262-2943

Enid
Longfellow Jr. High
Dan Gilliland
(405) 234-7022

1988-89 Technology Education Instructors and Staff

Enid
Longfellow Jr. High
Bob Dennis
(405) 234-7022

Erick
High School
Joe Patten
(405) 526-3351

Fairview
Jr. & Sr. High
Don Bowers
(405) 227-2117

Foyil
Jr. High
Cecil R. Lewis, Jr.
(918) 341-6020

Frederick
High School
Jimmy Lovejoy
(405) 335-5521

Grandfield
Jr. & Sr. High
Stan Mueggenborg
(405) 479-3140

Grove
High School
Sammy King
(918) 786-2207

Guthrie
Jr. High
James Smith
(405) 282-8900

Guymon
Jr. High
Steve Munson
(405) 338-3371

Harrah
High School
Rickey Noblett
(405) 454-2416

Harrah
High School
Bob Winters
(405) 454-2416

Hobart
Jr. & Sr. High
Dee Max Corbin
(405) 726-3130

Holdenville
Jr. & Sr. High
Curtis Moore
(405) 379-3387

Hominy
Jr. High
Randy Davis
(918) 885-2448

Hugo
Jr. High
Cecil Cowling
(405) 326-3365

Lawton
Eisenhower Jr. High
Wendell Hall
(405) 333-1040

Lawton
Tomlinson Jr. High
Richard Hopper
(405) 353-8553

Leedey
Jr. & Sr. High
Dan Crocker
(405) 488-3377

Lindsay
High School
Joe Ritchey
(405) 756-3131

Marlow
Jr. High
Bill Kiehn
(405) 658-2612

Marlow
High School
Henry Tillian
(405) 658-2718

Meeker
Jr. High
Alan Fillmore
(405) 279-2113

Miami
Will Rogers Jr. High
Ron White
(918) 542-5588

Midwest City
Monroney Jr. High
Ken Blackwell
(405) 732-0358

Moore
Highland Middle School
Bruce Crone
(405) 794-4423

Mooreland
High School
Lowell Hensley
(405) 994-5426

Mountain View
High School
Toby Hawkins
(405) 347-2211

Muldrow
Jr. High
Wayne Ford
(918) 427-4031

Muskogee
Parkview School
Robert Warren
(918) 682-6641

Navajo
Jr. & Sr. High
Tommy Burks
(405) 482-7742

Oklahoma City
Roosevelt Jr. High
Bill Hixon
(405) 685-7795

Okmulgee
Jr. High
York Jewell
(918) 756-1565

Olustee
Jr. & Sr. High
Bobby Welch
(405) 648-2243

Perry
Jr. High
Grady Parmley
(405) 336-2363

Putnam City
Mayfield Jr. High
Lynn Hawkins
(405) 947-8693

1988-89 Technology Education Instructors and Staff

Putnam City
Mayfield Jr. High
James Harder
(405) 947-8693

Putnam City
High School
Bill Snelson
(405) 789-4350

Quinton
Jr. High
Ray Miller
(918) 469-3309

Red Rock
High School
Kenny Ferda
(405) 723-4223

Salina
Jr. High/High School
Dell Heavener
(918) 434-2767

Sallisaw
High School
Kevin Collins
(918) 775-2621

Sapulpa
Jr. High
Sam Tucker
(918) 224-6710

Sentinel
Jr. & Sr. High
Monte Schimmer
(405) 393-2121

Snyder
High School
Jack Harmon
(405) 569-2730

Stigler
High School
Glenn Patterson
(918) 967-2371

Stillwater
Jr. High
Scott Shook
(405) 377-3474

Stratford
Jr. High/High School
J. R. Burkhart
(405) 759-2381

Tulsa
Gilcrease Middle School
Larry Currie
(918) 425-5505

Tulsa
Lewis & Clark Middle
Joe Eastham
(918) 437-2220

Tulsa
Whitney Middle
David Spears
(918) 835-9431

Tulsa
Clinton Middle
Gene Palmer
(918) 446-5556

Tulsa
Foster Middle School
Mike Doak
(918) 437-4222

Tulsa
Nimitz Middle School
Ron Givens
(918) 743-6696

Vinita
High School
George McCreary
(918) 256-7134

Waukomis
Pioneer-Pleasant Vale
Pat Markes
(405) 758-3282

Waurika
Jr. & Sr. High
Larry Snider
(405) 228-2341

Welch
Jr. & Sr. High
Robert Eubanks
(918) 788-3319

Wewoka
High School
Bob Paxton
(405) 257-5473

Wewoka
High School
Jim Lawson
(405) 257-5473

Woodward
Jr. High
Frank Harrington
(405) 256-7901

Wyandotte
High School
Randy Ransom
(918) 678-2222

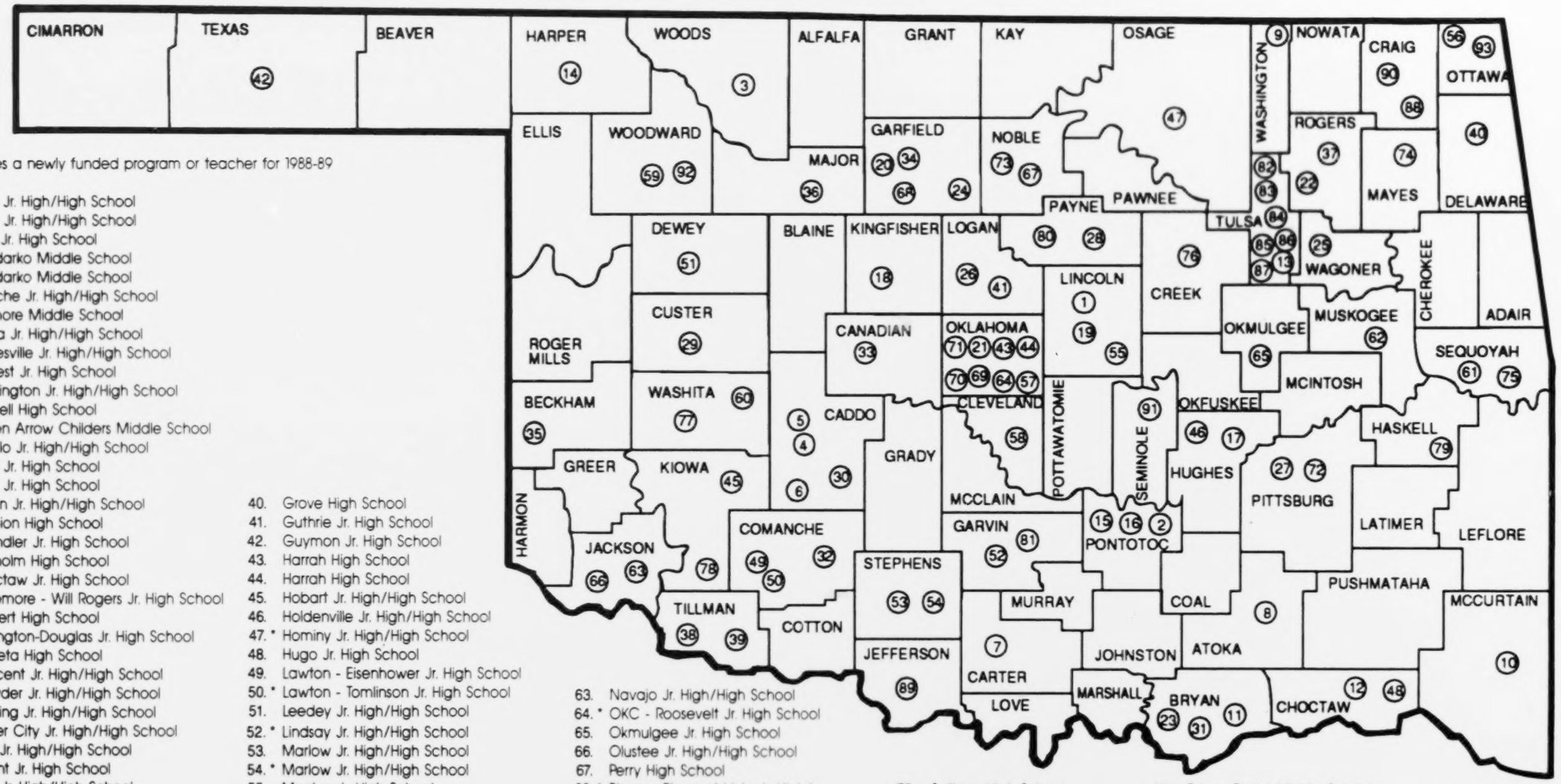
Roger Stacy
State Supervisor
iA/Technology Education

Harold Holley
Assistant State Supervisor
iA/Technology Education
and Oklahoma TSA State Advisor

Gina Martin
Administrative Office Manager
iA/Technology Education

Aimee Allison
Division Secretary
iA/Technology Education

For more information, write or contact Roger Stacy
Oklahoma State Department of Vocational and Technical Education
1500 West Seventh Avenue, Stillwater, OK 74074-4364 (405) 377-2000



* Designates a newly funded program or teacher for 1988-89

1. Agra Jr. High/High School
2. Allen Jr. High/High School
3. Alva Jr. High School
4. Anadarko Middle School
5. Anadarko Middle School
6. * Apache Jr. High/High School
7. Ardmore Middle School
8. Atoka Jr. High/High School
9. * Bartlesville Jr. High/High School
10. Battiest Jr. High School
11. * Bennington Jr. High/High School
12. Boswell High School
13. Broken Arrow Childers Middle School
14. * Buffalo Jr. High/High School
15. Byng Jr. High School
16. * Byng Jr. High School
17. Calvin Jr. High/High School
18. Cashion High School
19. * Chandler Jr. High School
20. Chisholm High School
21. Choctaw Jr. High School
22. Claremore - Will Rogers Jr. High School
23. Colbert High School
24. Covington-Douglas Jr. High School
25. Coweta High School
26. * Crescent Jr. High/High School
27. * Crowder Jr. High/High School
28. Cushing Jr. High/High School
29. Custer City Jr. High/High School
30. * Cyril Jr. High/High School
31. Durant Jr. High School
32. Elgin Jr. High/High School
33. * El Reno Jr. High/High School
34. Enid - Longfellow Jr. High School
35. Erick High School
36. Fairview Jr. High/High School
37. Foyil Jr. High School
38. Frederick High School
39. Grandfield Jr. High/High School
40. Grove High School
41. Guthrie Jr. High School
42. Guymon Jr. High School
43. Harrah High School
44. Harrah High School
45. Hobart Jr. High/High School
46. Holdenville Jr. High/High School
47. * Hominy Jr. High/High School
48. Hugo Jr. High School
49. Lawton - Eisenhower Jr. High School
50. * Lawton - Tomlinson Jr. High School
51. Leedey Jr. High/High School
52. * Lindsay Jr. High/High School
53. Marlow Jr. High/High School
54. * Marlow Jr. High/High School
55. Meeker Jr. High School
56. Miami - Will Rogers Jr. High School
57. Midwest City - Monroney Jr. High School
58. Moore - Highland Middle School
59. Mooreland Jr. High/High School
60. * Mountain View Jr. High/High School
61. Muldrow Jr. High School
62. Muskogee - Parkview School
63. Navajo Jr. High/High School
64. * OKC - Roosevelt Jr. High School
65. Okmulgee Jr. High School
66. Olustee Jr. High/High School
67. Perry High School
68. * Pioneer-Pleasant Vale Jr. High/ High School
69. Putnam City - Mayfield Jr. High School
70. Putnam City - Mayfield Jr. High School
71. * Putnam City High School
72. Quinton Jr. High School
73. * Red Rock Jr. High/High School
74. Salina Jr. High/High School
75. Sallisaw High School
76. Sapulpa Jr. High/High School
77. Sentinel Jr. High/High School
78. * Snyder Jr. High/High School
79. Stigler High School
80. Stillwater Jr. High School
81. Stratford Jr. High/High School
82. Tulsa - Clinton Middle School
83. Tulsa - Foster Middle School
84. Tulsa - Gilcrease Middle School
85. Tulsa - Lewis & Clark Middle School
86. Tulsa - Nimitz Middle School
87. Tulsa - Whitney Middle School
88. Vinita Jr. High/High School
89. Waurika Jr. High/High School
90. Welch Jr. High/High School
91. Wewoka High School
92. * Woodward Jr. High School
93. * Wyandotte Jr. High/High School

This publication is printed and issued by the Oklahoma State Department of Vocational and Technical Education as authorized by 74 O.S.1981, § 3104, as amended. 4,000 copies have been prepared and distributed at a cost of $2,167.51. Copies have been deposited with the Publications Clearinghouse of the Oklahoma Department of Libraries. 89-006224